SEQUENCE LISTING

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<120> IDENTIFICATION OF DEC, A RECEPTOR WITH C-TYPE LECTIN DOMAINS, NUCLEIC ACIDS ENCODING DEC, AND USES THEREOF

<130> RUJ-001CNRCE2

<140> 09/586,704
<141> 2000-06-05

<150> 08/381,528
<151> 1995-01-31

<160> 13

<170> PatentIn version 3.5

<210> 1
<211> 30
<212> PRT
<213> Homo sapiens

<220>
<223> C terminal DEC-205

<400> 1
Arg His Arg Leu His Leu Ala Gly Phe Ser Ser Val Arg Tyr Ala Gln
1 5 10 15

Gly Val Asn Glu Asp Glu Ile Met Leu Pro Ser Phe His Asp
20 25 30

<210> 2
<211> 25
<212> PRT
<213> Mus musculus

<220>
<223> N terminal DEC-205

<400> 2
Ser Glu Ser Ser Gly Asn Asp Pro Phe Thr Ile Val His Glu Asn Thr
1 5 10 15

Gly Lys Cys Ile Gln Pro Leu Phe Asp
20 25

<210> 3
<211> 1723
<212> PRT
<213> Mus musculus

<220>
<223> Predicted DEC-205

<400> 3

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Met Arg Thr Gly Arg Val Thr Pro Gly Leu Ala Ala Gly Leu Leu Leu
1               5                  10                  15

Leu Leu Leu Arg Ser Phe Gly Leu Val Glu Pro Ser Glu Ser Ser Gly
            20                  25                  30

Asn Asp Pro Phe Thr Ile Val His Glu Asn Thr Gly Lys Cys Ile Gln
        35                  40                  45

Pro Leu Ser Asp Trp Val Val Ala Gln Asp Cys Ser Gly Thr Asn Asn
    50                  55                  60

Met Leu Trp Lys Trp Val Ser Gln His Arg Leu Phe His Leu Glu Ser
65                  70                  75                  80

Gln Lys Cys Leu Gly Leu Asp Ile Thr Lys Ala Thr Asp Asn Leu Arg
                85                  90                  95

Met Phe Ser Cys Asp Ser Thr Val Met Leu Trp Trp Lys Cys Glu His
            100                 105                 110

His Ser Leu Tyr Thr Ala Ala Gln Tyr Arg Leu Ala Leu Lys Asp Gly
        115                 120                 125

Tyr Ala Val Ala Asn Thr Asn Thr Ser Asp Val Trp Lys Lys Gly Gly
    130                 135                 140

Ser Glu Glu Asn Leu Cys Ala Gln Pro Tyr His Glu Ile Tyr Thr Arg
145                 150                 155                 160

Asp Gly Asn Ser Tyr Gly Arg Pro Cys Glu Phe Pro Phe Leu Ile Gly
                165                 170                 175

Glu Thr Trp Tyr His Asp Cys Ile His Asp Glu Asp His Ser Gly Pro
            180                 185                 190
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```
Trp Cys Ala Thr Thr Leu Ser Tyr Glu Tyr Asp Gln Lys Trp Gly Ile
        195                 200                 205

Cys Leu Leu Pro Glu Ser Gly Cys Glu Gly Asn Trp Glu Lys Asn Glu
    210                 215                 220

Gln Ile Gly Ser Cys Tyr Gln Phe Asn Asn Gln Glu Ile Leu Ser Trp
225                 230                 235                 240

Lys Glu Ala Tyr Val Ser Cys Gln Asn Gln Gly Ala Asp Leu Leu Ser
                245                 250                 255

Ile His Ser Ala Ala Glu Leu Ala Tyr Ile Thr Gly Lys Glu Asp Ile
            260                 265                 270

Ala Arg Leu Val Trp Leu Gly Leu Asn Gln Leu Tyr Ser Ala Arg Gly
        275                 280                 285

Trp Glu Trp Ser Asp Phe Arg Pro Leu Lys Phe Leu Asn Trp Asp Pro
    290                 295                 300

Gly Thr Pro Val Ala Pro Val Ile Gly Gly Ser Ser Cys Ala Arg Met
305                 310                 315                 320

Asp Thr Glu Ser Gly Leu Trp Gln Ser Val Ser Cys Glu Ser Gln Gln
                325                 330                 335

Pro Tyr Val Cys Lys Lys Pro Leu Asn Asn Thr Leu Glu Leu Pro Asp
            340                 345                 350

Val Trp Thr Tyr Thr Asp Thr His Cys His Val Gly Trp Leu Pro Asn
        355                 360                 365

Asn Gly Phe Cys Tyr Leu Leu Ala Asn Glu Ser Ser Ser Trp Asp Ala
    370                 375                 380

Ala His Leu Lys Cys Lys Ala Phe Gly Ala Asp Leu Ile Ser Met His
385                 390                 395                 400

Ser Leu Ala Asp Val Glu Val Val Val Thr Lys Leu His Asn Gly Asp
                405                 410                 415

Val Lys Lys Glu Ile Trp Thr Gly Leu Lys Asn Thr Asn Ser Pro Ala
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            420                 425                 430

Leu Phe Gln Trp Ser Asp Gly Thr Glu Val Thr Leu Thr Tyr Trp Asn
        435                 440                 445

Glu Asn Glu Pro Ser Val Pro Phe Asn Lys Thr Pro Asn Cys Val Ser
    450                 455                 460

Tyr Leu Gly Lys Leu Gly Gln Trp Lys Val Gln Ser Cys Glu Lys Lys
465                 470                 475                 480

Leu Arg Tyr Val Cys Lys Lys Lys Gly Glu Ile Thr Lys Asp Ala Glu
                485                 490                 495

Ser Asp Lys Leu Cys Pro Pro Asp Glu Gly Trp Lys Arg His Gly Glu
            500                 505                 510

Thr Cys Tyr Lys Ile Tyr Glu Lys Glu Ala Pro Phe Gly Thr Asn Cys
        515                 520                 525

Asn Leu Thr Ile Thr Ser Arg Phe Glu Gln Glu Phe Leu Asn Tyr Met
    530                 535                 540

Met Lys Asn Tyr Asp Lys Ser Leu Arg Lys Tyr Phe Trp Thr Gly Leu
545                 550                 555                 560

Arg Asp Pro Asp Ser Arg Gly Glu Tyr Ser Trp Ala Val Ala Gln Gly
                565                 570                 575

Val Lys Gln Ala Val Thr Phe Ser Asn Trp Asn Phe Leu Glu Pro Ala
            580                 585                 590

Ser Pro Gly Gly Cys Val Ala Met Ser Thr Gly Lys Thr Leu Gly Lys
        595                 600                 605

Trp Glu Val Lys Asn Cys Arg Ser Phe Arg Ala Leu Ser Ile Cys Lys
    610                 615                 620

Lys Val Ser Glu Pro Gln Glu Pro Glu Glu Ala Ala Pro Lys Pro Asp
625                 630                 635                 640

Asp Pro Cys Pro Glu Gly Trp His Thr Phe Pro Ser Ser Leu Ser Cys
                645                 650                 655
```

```
Tyr Lys Val Phe His Ile Glu Arg Ile Val Arg Lys Arg Asn Trp Glu
            660                 665                 670

Glu Ala Glu Arg Phe Cys Gln Ala Leu Gly Ala His Leu Pro Ser Phe
        675                 680                 685

Ser Arg Arg Glu Glu Ile Lys Asp Phe Val His Leu Leu Lys Asp Gln
    690                 695                 700

Phe Ser Gly Gln Arg Trp Leu Trp Ile Gly Leu Asn Lys Arg Ser Pro
705                 710                 715                 720

Asp Leu Gln Gly Ser Trp Gln Trp Ser Asp Arg Thr Pro Val Ser Ala
                725                 730                 735

Val Met Met Glu Pro Glu Phe Gln Gln Asp Phe Asp Ile Arg Asp Cys
            740                 745                 750

Ala Ala Ile Lys Val Leu Asp Val Pro Trp Arg Arg Val Trp His Leu
        755                 760                 765

Tyr Glu Asp Lys Asp Tyr Ala Tyr Trp Lys Pro Phe Ala Cys Asp Ala
    770                 775                 780

Lys Leu Glu Trp Val Cys Gln Ile Pro Lys Gly Ser Thr Pro Gln Met
785                 790                 795                 800

Pro Asp Trp Tyr Asn Pro Glu Arg Thr Gly Ile His Gly Pro Pro Val
                805                 810                 815

Ile Ile Glu Gly Ser Glu Tyr Trp Phe Val Ala Asp Pro His Leu Asn
            820                 825                 830

Tyr Glu Glu Ala Val Leu Tyr Cys Ala Ser Asn His Ser Phe Leu Ala
        835                 840                 845

Thr Ile Thr Ser Phe Thr Gly Leu Lys Ala Ile Lys Asn Lys Leu Ala
    850                 855                 860

Asn Ile Ser Gly Glu Glu Gln Lys Trp Trp Val Lys Thr Ser Glu Asn
865                 870                 875                 880
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Pro Ile Asp Arg Tyr Phe Leu Gly Ser Arg Arg Arg Leu Trp His His
                885                 890                 895

Phe Pro Met Thr Phe Gly Asp Glu Cys Leu His Met Ser Ala Lys Thr
            900                 905                 910

Trp Leu Val Asp Leu Ser Lys Arg Ala Asp Cys Asn Ala Lys Leu Pro
        915                 920                 925

Phe Ile Cys Glu Arg Tyr Asn Val Ser Ser Leu Glu Lys Tyr Ser Pro
    930                 935                 940

Asp Pro Ala Ala Lys Val Gln Cys Thr Glu Lys Trp Ile Pro Phe Gln
945                 950                 955                 960

Asn Lys Cys Phe Leu Lys Val Asn Ser Gly Pro Val Thr Phe Ser Gln
                965                 970                 975

Ala Ser Gly Ile Cys His Ser Tyr Gly Gly Thr Leu Pro Ser Val Leu
            980                 985                 990

Ser Arg Gly Glu Gln Asp Phe Ile  Ile Ser Leu Leu Pro  Glu Met Glu
        995                 1000                1005

Ala Ser  Leu Trp Ile Gly Leu  Arg Trp Thr Ala Tyr  Glu Arg Ile
    1010                1015                1020

Asn Arg  Trp Thr Asp Asn Arg  Glu Leu Thr Tyr Ser  Asn Phe His
    1025                1030                1035

Pro Leu  Leu Val Gly Arg Arg  Leu Ser Ile Pro Thr  Asn Phe Phe
    1040                1045                1050

Asp Asp  Glu Ser His Phe His  Cys Ala Leu Ile Leu  Asn Leu Lys
    1055                1060                1065

Lys Ser  Pro Leu Thr Gly Thr  Trp Asn Phe Thr Ser  Cys Ser Glu
    1070                1075                1080

Arg His  Ser Leu Ser Leu Cys  Gln Lys Tyr Ser Glu  Thr Glu Asp
    1085                1090                1095
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Gly Gln Pro Trp Glu Asn Thr Ser Lys Thr Val Lys Tyr Leu Asn
1100 1105 1110

Asn Leu Tyr Lys Ile Ile Ser Lys Pro Leu Thr Trp His Gly Ala
1115 1120 1125

Leu Lys Glu Cys Met Lys Glu Lys Met Arg Leu Val Ser Ile Thr
1130 1135 1140

Asp Pro Tyr Gln Gln Ala Phe Leu Ala Val Gln Ala Thr Leu Arg
1145 1150 1155

Asn Ser Ser Phe Trp Ile Gly Leu Ser Ser Gln Asp Asp Glu Leu
1160 1165 1170

Asn Phe Gly Trp Ser Asp Gly Lys Arg Leu Gln Phe Ser Asn Trp
1175 1180 1185

Ala Gly Ser Asn Glu Gln Leu Asp Asp Cys Val Ile Leu Asp Thr
1190 1195 1200

Asp Gly Phe Trp Lys Thr Ala Asp Cys Asp Asp Asn Gln Pro Gly
1205 1210 1215

Ala Ile Cys Tyr Tyr Pro Gly Asn Glu Thr Glu Glu Glu Val Arg
1220 1225 1230

Ala Leu Asp Thr Ala Lys Cys Pro Ser Pro Val Gln Ser Thr Pro
1235 1240 1245

Trp Ile Pro Phe Gln Asn Ser Cys Tyr Asn Phe Met Ile Thr Asn
1250 1255 1260

Asn Arg His Lys Thr Val Thr Pro Glu Glu Val Gln Ser Thr Cys
1265 1270 1275

Glu Lys Leu His Pro Lys Ala His Ser Leu Ser Ile Arg Asn Glu
1280 1285 1290

Glu Glu Asn Thr Phe Val Val Glu Gln Leu Leu Tyr Phe Asn Tyr
1295 1300 1305

Ile Ala Ser Trp Val Met Leu Gly Ile Thr Tyr Glu Asn Asn Ser

1310 1315 1320

Leu Met Trp Phe Asp Lys Thr Ala Leu Ser Tyr Thr His Trp Arg
1325 1330 1335

Thr Gly Arg Pro Thr Val Lys Asn Gly Lys Phe Leu Ala Gly Leu
1340 1345 1350

Ser Thr Asp Gly Phe Trp Asp Ile Gln Ser Phe Asn Val Ile Glu
1355 1360 1365

Glu Thr Leu His Phe Tyr Gln His Ser Ile Ser Ala Cys Lys Ile
1370 1375 1380

Glu Met Val Asp Tyr Glu Asp Lys His Asn Gly Thr Leu Pro Gln
1385 1390 1395

Phe Ile Pro Tyr Lys Asp Gly Val Tyr Ser Val Ile Gln Lys Lys
1400 1405 1410

Val Thr Trp Tyr Glu Ala Leu Asn Ala Cys Ser Gln Ser Gly Gly
1415 1420 1425

Glu Leu Ala Ser Val His Asn Pro Asn Gly Lys Leu Phe Leu Glu
1430 1435 1440

Asp Ile Val Asn Arg Asp Gly Phe Pro Leu Trp Val Gly Leu Ser
1445 1450 1455

Ser His Asp Gly Ser Glu Ser Ser Phe Glu Trp Ser Asp Gly Arg
1460 1465 1470

Ala Phe Asp Tyr Val Pro Trp Gln Ser Leu Gln Ser Pro Gly Asp
1475 1480 1485

Cys Val Val Leu Tyr Pro Lys Gly Ile Trp Arg Arg Glu Lys Cys
1490 1495 1500

Leu Ser Val Lys Asp Gly Ala Ile Cys Tyr Lys Pro Thr Lys Asp
1505 1510 1515

Lys Lys Leu Ile Phe His Val Lys Ser Ser Lys Cys Pro Val Ala
1520 1525 1530

Lys Arg Asp Gly Pro Gln Trp Val Gln Tyr Gly Gly His Cys Tyr
1535 1540 1545

Ala Ser Asp Gln Val Leu His Ser Phe Ser Glu Ala Lys Gln Val
1550 1555 1560

Cys Gln Glu Leu Asp His Ser Ala Thr Val Val Thr Ile Ala Asp
1565 1570 1575

Glu Asn Glu Asn Lys Phe Val Ser Arg Leu Met Arg Glu Asn Tyr
1580 1585 1590

Asn Ile Thr Met Arg Val Trp Leu Gly Leu Ser Gln His Ser Leu
1595 1600 1605

Asp Gln Ser Trp Ser Trp Leu Asp Gly Leu Asp Val Thr Phe Val
1610 1615 1620

Lys Trp Glu Asn Lys Thr Lys Asp Gly Asp Gly Lys Cys Ser Ile
1625 1630 1635

Leu Ile Ala Ser Asn Glu Thr Trp Arg Lys Val His Cys Ser Arg
1640 1645 1650

Gly Tyr Ala Arg Ala Val Cys Lys Ile Pro Leu Ser Pro Asp Tyr
1655 1660 1665

Thr Gly Ile Ala Ile Leu Phe Ala Val Leu Cys Leu Leu Gly Leu
1670 1675 1680

Ile Ser Leu Ala Ile Trp Phe Leu Leu Gln Arg Ser His Ile Arg
1685 1690 1695

Trp Thr Gly Phe Ser Ser Val Arg Tyr Glu His Gly Thr Asn Glu
1700 1705 1710

Asp Glu Val Met Leu Pro Ser Phe His Asp
1715 1720

<210> 4
<211> 1462
<212> PRT

<213> Bos Taurus

<220>
<223> PLA2 receptor

<400> 4

```
Met Pro Leu Leu Ser Leu Ser Leu Leu Leu Leu Leu Gln Val Pro
1               5                  10                  15

Ala Gly Ser Ala Glu Thr Ala Ala Trp Ala Val Thr Pro Glu Arg Leu
            20                  25                  30

Arg Glu Trp Gln Asp Lys Gly Ile Phe Ile Ile Gln Ser Glu Asn Leu
        35                  40                  45

Glu Lys Cys Ile Gln Ala Ser Lys Ser Thr Leu Thr Leu Glu Asn Cys
    50                  55                  60

Lys Pro Pro Asn Lys Tyr Met Leu Trp Lys Trp Val Ser Asn His Arg
65                  70                  75                  80

Leu Phe Asn Ile Gly Gly Ser Gly Cys Leu Gly Leu Asn Val Ser Ser
                85                  90                  95

Pro Glu Gln Pro Leu Ser Ile Tyr Glu Cys Asp Ser Thr His Val Ser
            100                 105                 110

Leu Lys Trp His Cys Asn Lys Lys Thr Ile Thr Gly Pro Leu Gln Tyr
        115                 120                 125

Leu Val Gln Val Lys Gln Asp Asn Thr Leu Val Ala Ser Arg Lys Tyr
    130                 135                 140

Leu His Lys Trp Val Ser Tyr Met Ser Gly Gly Gly Gly Ile Cys Asp
145                 150                 155                 160

Tyr Leu His Lys Asp Leu Tyr Thr Ile Lys Gly Asn Ala His Gly Thr
                165                 170                 175

Pro Cys Met Phe Pro Phe Gln Tyr Asn Gln Gln Trp His His Glu Cys
            180                 185                 190

Thr Arg Glu Gly Arg Glu Asp Asn Leu Leu Trp Cys Ala Thr Thr Ser
        195                 200                 205
```

```
Arg Tyr Glu Arg Asp Glu Lys Trp Gly Phe Cys Pro Asp Pro Thr Ser
    210                 215                 220

Thr Glu Val Gly Cys Asp Ala Val Trp Glu Lys Asp Leu His Ser Arg
225                 230                 235                 240

Ile Cys Tyr Gln Phe Asn Leu Leu Ser Ser Leu Ser Trp Ser Glu Ala
                245                 250                 255

His Ser Ser Cys Gln Met Gln Gly Ala Ala Leu Leu Ser Ile Ala Asp
            260                 265                 270

Glu Thr Glu Glu Asn Phe Val Arg Lys His Leu Gly Ser Glu Ala Val
        275                 280                 285

Glu Val Trp Met Gly Leu Asn Gln Leu Asp Glu Asp Ala Gly Trp Gln
    290                 295                 300

Trp Ser Asp Arg Thr Pro Leu Asn Tyr Leu Asn Trp Lys Pro Glu Ile
305                 310                 315                 320

Asn Phe Glu Pro Phe Val Glu Tyr His Cys Gly Thr Phe Asn Ala Phe
                325                 330                 335

Met Pro Lys Ala Trp Lys Ser Arg Asp Cys Glu Ser Thr Leu Pro Tyr
            340                 345                 350

Val Cys Lys Lys Tyr Leu Asn Pro Thr Asp His Gly Val Val Glu Lys
        355                 360                 365

Asp Ala Trp Lys Tyr Tyr Ala Thr His Cys Glu Pro Gly Trp Asn Pro
    370                 375                 380

His Asn Arg Asn Cys Tyr Lys Leu Gln Lys Glu Lys Lys Thr Trp Asn
385                 390                 395                 400

Glu Ala Leu Gln Ser Cys Gln Ser Asn Asn Ser Val Leu Thr Asp Ile
                405                 410                 415

Thr Ser Leu Ala Glu Val Glu Phe Leu Val Thr Leu Leu Gly Asp Glu
            420                 425                 430
```

Asn Ala Ser Glu Thr Trp Ile Gly Leu Ser Ser His Lys Ile Pro Val
435 440 445

Ser Phe Glu Trp Ser Asn Gly Ser Ser Val Thr Phe Thr Asn Trp His
450 455 460

Thr Leu Glu Pro His Ile Phe Pro Asn Arg Ser Gln Leu Cys Val Ser
465 470 475 480

Ala Glu Gln Ser Glu Gly His Trp Lys Val Lys Asn Cys Glu Glu Thr
485 490 495

Leu Phe Tyr Leu Cys Lys Lys Thr His Leu Val Leu Ser Asp Thr Glu
500 505 510

Ser Gly Cys Gln Lys Gly Trp Glu Arg His Gly Lys Phe Cys Tyr Lys
515 520 525

Ile Asp Thr Val Leu Arg Ser Phe Asp His Ala Ser Ser Gly Tyr Tyr
530 535 540

Cys Pro Pro Ala Leu Ile Thr Ile Thr Ser Arg Phe Glu Gln Ala Phe
545 550 555 560

Ile Thr Ser Leu Ile Ser Ser Val Val Lys Thr Lys Asp Thr Tyr Phe
565 570 575

Trp Ile Ala Leu Gln Asp Gln Asn Asn Thr Gly Glu Tyr Thr Trp Lys
580 585 590

Thr Ala Gly Gln Gln Leu Glu Pro Val Lys Tyr Thr His Trp Asn Thr
595 600 605

Arg Gln Pro Arg Tyr Ser Gly Gly Cys Val Val Met Arg Gly Arg Ser
610 615 620

His Pro Gly Arg Trp Glu Val Arg Asp Cys Arg His Phe Lys Ala Met
625 630 635 640

Ser Leu Cys Lys Gln Pro Val Glu Asn Arg Glu Lys Thr Lys Gln Glu
645 650 655

Glu Gly Trp Pro Phe His Pro Cys Tyr Leu Asp Trp Glu Ser Glu Pro

660 665 670

Gly Leu Ala Ser Cys Phe Lys Val Phe His Ser Glu Lys Val Leu Met
675 680 685

Lys Arg Thr Trp Arg Gln Ala Glu Glu Phe Cys Glu Glu Phe Gly Ala
690 695 700

His Leu Ala Ser Phe Ala His Ile Glu Glu Glu Asn Phe Val Asn Glu
705 710 715 720

Leu Leu His Ser Lys Phe Asn Arg Thr Glu Glu Arg Gln Phe Trp Ile
725 730 735

Gly Phe Asn Lys Arg Asn Pro Leu Asn Ala Gly Ser Trp Glu Trp Ser
740 745 750

Asp Gly Thr Pro Val Val Ser Ser Phe Leu Asp Asn Ser Tyr Phe Gly
755 760 765

Glu Asp Ala Arg Asn Cys Ala Val Tyr Lys Ala Asn Lys Thr Leu Leu
770 775 780

Pro Ser Tyr Cys Gly Ser Lys Arg Glu Trp Ile Cys Lys Ile Pro Arg
785 790 795 800

Asp Val Arg Pro Lys Val Pro Pro Trp Tyr Gln Tyr Asp Ala Pro Trp
805 810 815

Leu Phe Tyr Gln Asp Ala Glu Tyr Leu Phe His Ile Ser Ala Ser Glu
820 825 830

Trp Ser Ser Phe Glu Phe Val Cys Gly Trp Leu Arg Ser Asp Ile Leu
835 840 845

Thr Ile His Ser Ala His Glu Gln Glu Phe Ile His Ser Lys Ile Arg
850 855 860

Ala Leu Ser Lys Tyr Gly Val Asn Trp Trp Ile Gly Leu Arg Glu Glu
865 870 875 880

Arg Ala Ser Asp Glu Phe Arg Trp Arg Asp Gly Ser Pro Val Ile Tyr
885 890 895

```
Gln Asn Trp Asp Lys Gly Lys Glu Arg Ser Met Gly Leu Asn Glu Ser
            900                 905                 910

Gln Arg Cys Gly Phe Ile Ser Ser Ile Thr Gly Leu Trp Ala Ser Glu
        915                 920                 925

Glu Cys Ser Ile Ser Met Pro Ser Ile Cys Lys Arg Lys Lys Val Trp
    930                 935                 940

Val Ile Glu Lys Lys Lys Asp Ile Pro Lys Gln His Gly Thr Cys Pro
945                 950                 955                 960

Lys Gly Trp Leu Tyr Phe Asp Tyr Lys Cys Leu Leu Leu Lys Ile Pro
                965                 970                 975

Glu Gly Pro Ser Asp Trp Lys Asn Trp Thr Ser Ala Gln Asp Phe Cys
            980                 985                 990

Val Glu Glu Gly Gly Thr Leu Val  Ala Ile Glu Asn Glu  Val Glu Gln
        995                 1000                1005

Ala Phe  Ile Thr Met Asn Leu  Phe Gly His Thr Thr  Asn Val Trp
    1010                1015                1020

Ile Gly  Leu Gln Asp Asp Asp  Tyr Glu Lys Trp Leu  Asn Gly Arg
    1025                1030                1035

Pro Val  Ser Tyr Ser Asn Trp  Ser Pro Phe Asp Thr  Lys Asn Ile
    1040                1045                1050

Pro Asn  His Asn Thr Thr Glu  Val Gln Lys Arg Ile  Pro Leu Cys
    1055                1060                1065

Gly Leu  Leu Ser Asn Asn Pro  Asn Phe His Phe Thr  Gly Lys Trp
    1070                1075                1080

Tyr Phe  Asp Cys Arg Glu Gly  Tyr Gly Phe Val Cys  Glu Lys Met
    1085                1090                1095

Gln Asp  Ala Ser Gly His Ser  Ile Asn Thr Ser Asp  Met Tyr Pro
    1100                1105                1110
```

Ile Pro Asn Thr Leu Glu Tyr Gly Asn Arg Thr Tyr Lys Ile Ile
1115 1120 1125

Asn Ala Asn Met Thr Trp Tyr Thr Ala Leu Lys Thr Cys Leu Met
1130 1135 1140

His Gly Ala Glu Leu Ala Ser Ile Thr Asp Gln Tyr His Gln Ser
1145 1150 1155

Phe Leu Thr Val Ile Leu Asn Arg Val Gly Tyr Ala His Trp Ile
1160 1165 1170

Gly Leu Phe Thr Glu Asp Asn Gly Leu Ser Phe Asp Trp Ser Asp
1175 1180 1185

Gly Thr Lys Ser Ser Phe Thr Phe Trp Lys Asp Asp Glu Ser Ser
1190 1195 1200

Phe Leu Gly Asp Cys Val Phe Ala Asp Thr Ser Gly Arg Trp Ser
1205 1210 1215

Ser Thr Ala Cys Glu Ser Tyr Leu Gln Gly Ala Ile Cys Gln Val
1220 1225 1230

Pro Thr Glu Thr Arg Leu Ser Gly Arg Leu Glu Leu Cys Ser Glu
1235 1240 1245

Thr Ser Ile Pro Trp Ile Lys Phe Lys Ser Asn Cys Tyr Ser Phe
1250 1255 1260

Ser Thr Val Leu Glu Ser Thr Ser Phe Glu Ala Ala His Glu Phe
1265 1270 1275

Cys Lys Lys Lys Gly Ser Asn Leu Leu Thr Ile Lys Asp Glu Ala
1280 1285 1290

Glu Asn Ser Phe Leu Leu Glu Glu Leu Leu Ala Phe Arg Ser Ser
1295 1300 1305

Val Gln Met Ile Trp Leu Asn Ala Gln Phe Asp Gly Asp Asn Glu
1310 1315 1320

```
Thr Ile  Lys Trp Phe Asp Gly  Thr Pro Thr Asp Gln  Ser Asn Trp
    1325                 1330                 1335

Gly Ile  Arg Lys Pro Glu Val  Tyr His Phe Lys Pro  His Leu Cys
    1340                 1345                 1350

Val Ala  Leu Arg Ile Pro Glu  Gly Val Trp Gln Leu  Ser Ser Cys
    1355                 1360                 1365

Gln Asp  Lys Lys Gly Phe Ile  Cys Lys Met Glu Ala  Asp Ile His
    1370                 1375                 1380

Thr Val  Lys Lys His Pro Gly  Lys Gly Pro Ser His  Ser Val Ile
    1385                 1390                 1395

Pro Leu  Thr Val Ala Leu Thr  Leu Leu Val Ile Leu  Ala Ile Ser
    1400                 1405                 1410

Thr Leu  Ser Phe Cys Met Tyr  Lys His Ser His Ile  Ile Phe Gly
    1415                 1420                 1425

Arg Leu  Ala Gln Phe Arg Asn  Pro Tyr Tyr Pro Ser  Ala Asn Phe
    1430                 1435                 1440

Ser Thr  Val His Leu Glu Glu  Asn Ile Leu Ile Ser  Asp Leu Glu
    1445                 1450                 1455

Lys Asn  Asp Gln
    1460
```

<210> 5
<211> 1457
<212> PRT
<213> Homo sapiens

<220>
<223> Macrophage mannose receptor

<400> 5

```
Met Arg Leu Pro Leu Leu Leu Val Phe Ala Ser Val Ile Pro Gly Ala
1               5                  10                  15

Val Leu Leu Leu Asp Thr Arg Gln Phe Leu Ile Tyr Asn Glu Asp His
            20                  25                  30
```

Lys Arg Cys Val Asp Ala Val Ser Pro Ser Ala Val Gln Thr Ala Ala
35 40 45

Cys Asn Gln Asp Ala Glu Ser Gln Lys Phe Arg Trp Val Ser Glu Ser
50 55 60

Gln Ile Met Ser Val Ala Phe Lys Leu Cys Leu Gly Val Pro Ser Lys
65 70 75 80

Thr Asp Trp Val Ala Ile Thr Leu Tyr Ala Cys Asp Ser Lys Ser Glu
85 90 95

Phe Gln Lys Trp Glu Cys Lys Asn Asp Thr Leu Leu Gly Ile Lys Gly
100 105 110

Glu Asp Leu Phe Phe Asn Tyr Gly Asn Arg Gln Glu Lys Asn Ile Met
115 120 125

Leu Tyr Lys Gly Ser Gly Leu Trp Ser Arg Trp Lys Ile Tyr Gly Thr
130 135 140

Thr Asp Asn Leu Cys Ser Arg Gly Tyr Glu Ala Met Tyr Thr Leu Leu
145 150 155 160

Gly Asn Ala Asn Gly Ala Thr Cys Ala Phe Pro Phe Lys Phe Glu Asn
165 170 175

Lys Trp Tyr Ala Asp Cys Thr Ser Ala Gly Arg Ser Asp Gly Trp Leu
180 185 190

Trp Cys Gly Thr Thr Thr Asp Tyr Asp Thr Asp Lys Leu Phe Gly Tyr
195 200 205

Cys Pro Leu Lys Phe Glu Gly Ser Glu Ser Leu Trp Asn Lys Asp Pro
210 215 220

Leu Thr Ser Val Ser Tyr Gln Ile Asn Ser Lys Ser Ala Leu Thr Trp
225 230 235 240

His Gln Ala Arg Lys Ser Cys Gln Gln Gln Asn Ala Glu Leu Leu Ser
245 250 255

Ile Thr Glu Ile His Glu Gln Thr Tyr Leu Thr Gly Leu Thr Ser Ser

260 265 270

Leu Thr Ser Gly Leu Trp Ile Gly Leu Asn Ser Leu Ser Phe Asn Ser
275 280 285

Gly Trp Gln Trp Ser Asp Arg Ser Pro Phe Arg Tyr Leu Asn Trp Leu
290 295 300

Pro Gly Ser Pro Ser Ala Glu Pro Gly Lys Ser Cys Val Ser Leu Asn
305 310 315 320

Pro Gly Lys Asn Ala Lys Trp Glu Asn Leu Glu Cys Val Gln Lys Leu
325 330 335

Gly Tyr Ile Cys Lys Lys Gly Asn Thr Thr Leu Asn Ser Phe Val Ile
340 345 350

Pro Ser Glu Ser Asp Val Pro Thr His Cys Pro Ser Gln Trp Trp Pro
355 360 365

Tyr Ala Gly His Cys Tyr Lys Ile His Arg Asp Glu Lys Lys Ile Gln
370 375 380

Arg Asp Ala Leu Thr Thr Cys Arg Lys Glu Gly Gly Asp Leu Thr Ser
385 390 395 400

Ile His Thr Ile Glu Glu Leu Asp Phe Ile Ile Ser Gln Leu Gly Tyr
405 410 415

Glu Pro Asn Asp Glu Leu Trp Ile Gly Leu Asn Asp Ile Lys Ile Gln
420 425 430

Met Tyr Phe Glu Trp Ser Asp Gly Thr Pro Val Thr Phe Thr Lys Trp
435 440 445

Leu Arg Gly Glu Pro Ser His Glu Asn Asn Arg Gln Glu Asp Cys Val
450 455 460

Val Met Lys Gly Lys Asp Gly Tyr Trp Ala Asp Arg Gly Cys Glu Trp
465 470 475 480

Pro Leu Gly Tyr Ile Cys Lys Met Lys Ser Arg Ser Gln Gly Pro Glu
485 490 495

Ile Val Glu Val Glu Lys Gly Cys Arg Lys Gly Trp Lys Lys His His
500 505 510

Phe Tyr Cys Tyr Met Ile Gly His Thr Leu Ser Thr Phe Ala Glu Ala
515 520 525

Asn Gln Thr Cys Asn Asn Glu Asn Ala Tyr Leu Thr Thr Ile Glu Asp
530 535 540

Arg Tyr Glu Gln Ala Phe Leu Thr Ser Phe Val Gly Leu Arg Pro Glu
545 550 555 560

Lys Tyr Phe Trp Thr Gly Leu Ser Asp Ile Gln Thr Lys Gly Thr Phe
565 570 575

Gln Trp Thr Ile Glu Glu Glu Val Arg Phe Thr His Trp Asn Ser Asp
580 585 590

Met Pro Gly Arg Lys Pro Gly Cys Val Ala Met Arg Thr Gly Ile Ala
595 600 605

Gly Gly Leu Trp Asp Val Leu Lys Cys Asp Glu Lys Ala Lys Phe Val
610 615 620

Cys Lys His Trp Ala Glu Gly Val Thr His Pro Pro Lys Pro Thr Thr
625 630 635 640

Thr Pro Glu Pro Lys Cys Pro Glu Asp Trp Gly Ala Ser Ser Arg Thr
645 650 655

Ser Leu Cys Phe Lys Leu Tyr Ala Lys Gly Lys His Glu Lys Lys Thr
660 665 670

Trp Phe Glu Ser Arg Asp Phe Cys Arg Ala Leu Gly Gly Asp Leu Ala
675 680 685

Ser Ile Asn Asn Lys Glu Glu Gln Gln Thr Ile Trp Arg Leu Ile Thr
690 695 700

Ala Ser Gly Ser Tyr His Lys Leu Phe Trp Leu Gly Leu Thr Tyr Gly
705 710 715 720

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Ser Pro Ser Glu Gly Phe Thr Trp Ser Asp Gly Ser Pro Val Ser Tyr
                725                 730                 735

Glu Asn Trp Ala Tyr Gly Glu Pro Asn Asn Tyr Gln Asn Val Glu Tyr
            740                 745                 750

Cys Gly Glu Leu Lys Gly Asp Pro Thr Met Ser Trp Asn Asp Ile Asn
        755                 760                 765

Cys Glu His Leu Asn Asn Trp Ile Cys Gln Ile Gln Lys Gly Gln Thr
    770                 775                 780

Pro Lys Pro Glu Pro Thr Pro Ala Pro Gln Asp Asn Pro Pro Val Thr
785                 790                 795                 800

Glu Asp Gly Trp Val Ile Tyr Lys Asp Tyr Gln Tyr Tyr Phe Ser Lys
                805                 810                 815

Glu Lys Glu Thr Met Asp Asn Ala Arg Ala Phe Cys Lys Arg Asn Phe
            820                 825                 830

Gly Asp Leu Val Ser Ile Gln Ser Glu Ser Glu Lys Lys Phe Leu Trp
        835                 840                 845

Lys Tyr Val Asn Arg Asn Asp Ala Gln Ser Ala Tyr Phe Ile Gly Leu
    850                 855                 860

Leu Ile Ser Leu Asp Lys Lys Phe Ala Trp Met Asp Gly Ser Lys Val
865                 870                 875                 880

Asp Tyr Val Ser Trp Ala Thr Gly Glu Pro Asn Phe Ala Asn Glu Asp
                885                 890                 895

Glu Asn Cys Val Thr Met Tyr Ser Asn Ser Gly Phe Trp Asn Asp Ile
            900                 905                 910

Asn Cys Gly Tyr Pro Asn Ala Phe Ile Cys Gln Arg His Asn Ser Ser
        915                 920                 925

Ile Asn Ala Thr Thr Val Met Pro Thr Met Pro Ser Val Pro Ser Gly
    930                 935                 940
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Cys Lys Glu Gly Trp Asn Phe Tyr Ser Asn Lys Cys Phe Lys Ile Phe
945                 950                 955                 960

Gly Phe Met Glu Glu Glu Arg Lys Asn Trp Gln Glu Ala Arg Lys Ala
                965                 970                 975

Cys Ile Gly Phe Gly Gly Asn Leu Val Ser Ile Gln Asn Glu Lys Glu
            980                 985                 990

Gln Ala Phe Leu Thr Tyr His Met  Lys Asp Ser Thr Phe  Ser Ala Trp
        995                 1000                1005

Thr Gly  Leu Asn Asp Val Asn  Ser Glu His Thr Phe  Leu Trp Thr
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Asp Gly  Arg Gly Val His Tyr  Thr Asn Trp Gly Lys  Gly Tyr Pro
    1025                1030                1035

Gly Gly  Arg Arg Ser Ser Leu  Ser Tyr Glu Asp Ala  Asp Cys Val
    1040                1045                1050

Val Ile  Ile Gly Gly Ala Ser  Asn Glu Ala Gly Lys  Trp Met Asp
    1055                1060                1065

Asp Thr  Cys Asp Ser Lys Arg  Gly Tyr Ile Cys Gln  Thr Arg Ser
    1070                1075                1080

Asp Pro  Ser Leu Thr Asn Pro  Pro Ala Thr Ile Gln  Thr Asp Gly
    1085                1090                1095

Phe Val  Lys Tyr Gly Lys Ser  Ser Tyr Ser Leu Met  Arg Gln Lys
    1100                1105                1110

Phe Gln  Trp His Glu Ala Glu  Thr Tyr Cys Lys Leu  His Asn Ser
    1115                1120                1125

Leu Ile  Ala Ser Ile Leu Asp  Pro Tyr Ser Asn Ala  Phe Ala Trp
    1130                1135                1140

Leu Gln  Met Glu Thr Ser Asn  Glu Arg Val Trp Ile  Ala Leu Asn
    1145                1150                1155

Ser Asn  Leu Thr Asp Asn Gln  Tyr Thr Trp Thr Asp  Lys Trp Arg
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1160 1165 1170

Val Arg Tyr Thr Asn Trp Ala Ala Asp Glu Pro Lys Leu Lys Ser
1175 1180 1185

Ala Cys Val Tyr Leu Asp Leu Asp Gly Tyr Trp Lys Thr Ala His
1190 1195 1200

Cys Asn Glu Ser Phe Tyr Phe Leu Cys Lys Arg Ser Asp Glu Ile
1205 1210 1215

Pro Ala Thr Glu Pro Pro Gln Leu Pro Gly Arg Cys Pro Glu Ser
1220 1225 1230

Asp His Thr Ala Trp Glu Ile Pro Phe His Gly His Cys Tyr Tyr
1235 1240 1245

Ile Glu Ser Ser Tyr Thr Arg Asn Trp Gly Gln Ala Ser Leu Glu
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Cys Leu Arg Met Gly Ser Ser Leu Val Ser Ile Glu Ser Ala Ala
1265 1270 1275

Glu Ser Ser Phe Leu Ser Tyr Arg Val Glu Pro Leu Lys Ser Lys
1280 1285 1290

Thr Asn Phe Trp Ile Gly Leu Phe Arg Asn Val Glu Gly Thr Trp
1295 1300 1305

Leu Trp Ile Asn Asn Ser Pro Val Ser Phe Val Asn Trp Asn Thr
1310 1315 1320

Gly Asp Pro Ser Gly Glu Arg Asn Asp Cys Val Ala Leu His Ala
1325 1330 1335

Ser Ser Gly Phe Trp Ser Asn Ile His Cys Ser Ser Tyr Lys Gly
1340 1345 1350

Tyr Ile Cys Lys Arg Pro Lys Ile Ile Asp Ala Lys Pro Thr His
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Glu Leu Leu Thr Thr Lys Ala Asp Thr Arg Lys Met Asp Pro Ser
1370 1375 1380

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Lys Pro  Ser Ser Asn Val Ala  Gly Val Val Ile Ile  Val Ile Leu
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Leu Ile  Leu Thr Gly Ala Gly  Leu Ala Ala Tyr Phe  Phe Tyr Lys
    1400                 1405                 1410

Lys Arg  Arg Val His Leu Pro  Gln Glu Gly Ala Phe  Glu Asn Thr
    1415                 1420                 1425

Leu Tyr  Phe Asn Ser Gln Ser  Ser Pro Gly Thr Ser  Asp Met Lys
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Asp Leu  Val Gly Asn Ile Glu  Gln Asn Glu His Ser  Val Ile
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Gly Lys Cys